RSVP Detector Capabilities, Simulations and Backgrounds Review

New York University
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CHARGE

[1] For each of the KOPIO and MECO experiments, determine if the proposed detectors are capable of achieving the stated sensitivities and background suppression. Specific questions to address include:

(a) What is the current status of the detailed detector design?
(b) Is this design capable of achieving the desired resolutions, efficiencies, and hermeticity?
(c) What is the current status of the simulation studies?
(d) Do they indicate that acceptable signal and background levels can be achieved?
(e) How is the field specified in detail in the MECO magnet system, and what method is used to determine these specifications? What is the consequence for the rates and backgrounds if the desired field accuracy in various aspects is not achieved?
(f) What is the current status of beam studies? In particular, can desired extinction levels be achieved?
(g) Given the detector status in (a) thru (f) above, how much running will be required to achieve the stated sensitivities?

[2] If any of the issues in [1] above are judged to be currently inadequate, what does the review committee recommend doing to achieve the stated sensitivities and background rejection? What additional resources will be required to accomplish this? What time will be required to accomplish this?

[3] Are there any organizational, personnel, or resource issues which may hinder achievement of the stated sensitivities? If so, how does the review committee recommend they be addressed?